

**Name: Dr. Nur Hosain Md. Ariful Azim**

Employee ID #: 0005671067, Code # 2013

Designation: Associate Professor

Name of the Department: Electrical and Electronic Engineering

Name of the School: Science and Engineering

University: Southeast University, Tejgaon, Dhaka



**Academic Qualifications:**

| Sl # | Name of Degree | Institution   | Board    | Major               | Passing Year | Result/CGPA                       |
|------|----------------|---|----------|---------------------|--------------|-----------------------------------|
| 1.   | Ph.D           | Bangladesh University of Engineering & Technology, Bangladesh | N/A      | Mathematics         | 2014         | 3.33/4.00                         |
| 2.   | M. Phil        | Bangladesh University of Engineering & Technology, Bangladesh | N/A      | Mathematics         | 2006         | 3.19/4.00                         |
| 3.   | M. Sc          | University of Dhaka, Dhaka                                    | N/A      | Applied Mathematics | 1998         | 69.83%<br>1 <sup>st</sup> Class   |
| 4.   | B.Sc.          | University of Dhaka, Dhaka                                    | N/A      | Mathematics         | 1997         | 62.76%<br>1 <sup>st</sup> Class   |
| 5.   | HSC            | Carmichael College, Rangpur                                   | Rajshahi | Science             | 1993         | 72.9%<br>1 <sup>st</sup> Division |
| 6.   | SSC            | Adarsha High School, Rangpur                                  | Rajshahi | Science             | 1991         | 72.1%<br>1 <sup>st</sup> Division |

**Tenure of Teaching/Research Experiences:**

**Full-Time Experiences:**

| Sl # | Position            | Department | University                                  | Start      | End        | Length of Service |
|------|---------------------|------------|---|------------|------------|-------------------|
| 1.   | Associate Professor | EEE        | Southeast University                        | 01.07.2018 | continuing | 1 year            |
| 2.   | Associate Professor | SBS        | Southeast University                        | 07.04.2014 | 30.06.2018 | 4 yrs 2 months    |
| 3.   | Assistant Professor | SBS        | Southeast University                        | 08.06.2006 | 06.04.2014 | 8 yrs 10 months   |
| 4.   | Lecturer            | DBA        | International Islamic University Chittagong | 03.06.2001 | 07.06.2005 | 4 yrs             |

### **Academic Administrative Services:**

- 1) Coordinator, MBA Friday Program, SBS, SEU (From 11/08/2014 to 12/07/2017)
- 2) Coordinator, BBA Program, SBS, SEU (From 26/02/2014 to 10/08/2014)
- 3) Coordinator, MBA Evening Program, SBS, SEU (From 26/07/2012 to 07/04/2013)
- 4) Coordinator, MBA Distance Program, SBS, SEU (From 07/07/2006 to 13/09/2009)

### **Teaching Competences:**

- 1) Trained on Bloom's Taxonomy
- 2) Trained in outcome based education
- 3) Expert in teaching through student's engagement in the class and motivation
- 4) Expert in Mathematics theory courses
- 5) Expert in Fluid dynamics and heat transfer

### **Teaching Interests:**

- 1) Differential and Integral Calculus
- 2) Ordinary and Partial Differential Equations
- 3) Complex Variables, Fourier Series and Transforms
- 4) Linear Algebra, Co-ordinate Geometry and Vector Analysis
- 5) Probability and Statistics
- 6) Business Mathematics
- 7) Business Statistics

### **Research Areas:**

- 1) Computational Fluid dynamics
- 2) Heat Transfer and Fluid flow
- 3) Quantitative Business Analysis

### **Research Publications:**

#### **(a) Thesis:**

Ph.D. Thesis: **Magnetohydrodynamic (MHD) Conjugate Free Convection Flow from an Isothermal Horizontal Circular Cylinder.**

M.Phil. Thesis: **Magnetohydrodynamic laminar free convective flow across a horizontal cylinder with adiabatic surface.**

#### **(b) Journal Papers:**

##### **International Publications:**

1. **NHM. A. Azim**, Effects of Viscous Dissipation and Heat Generation on MHD Conjugate Free Convection Flow from an Isothermal Horizontal Circular Cylinder, SOP TRANSACTIONS ON APPLIED PHYSICS, Scientific online, DOI: 10.15764/APHY.2014.03001, Volume 1, Number 3, September 2014.
2. A. S. Bhuiyan, **NHM. A. Azim**, M. K. Chowdhury, Joule heating effects on MHD natural convection flows in presence of pressure stress work and viscous dissipation from a horizontal circular cylinder, Journal of Applied Fluid Mechanics, Vol. 7, No. 1, pp.7-13, 2014.
3. **NHM. A. Azim**, M. K. Chowdhury, MHD-conjugate free convection from an isothermal horizontal circular cylinder with Joule heating and heat generation, Journal of computational methods in physics, Hindawi Publishing Corporation, Volume 2013, Article ID 180516, <http://dx.doi.org/10.1155/2013/180516>.

4. **NHM. A. Azim**, M. K. Chowdhury, Hydromagnetic conjugate free convection flow from an isothermal horizontal circular cylinder with stress work and heat generation, *International Journal of Energy & Technology* 5 (17) (2013) 1–9.
5. Mohammad Mokaddes Ali, A. A. Mamun, Md. Abdul Maleque, **NHM. A. Azim**, Radiation effects on MHD free convection flow along vertical flat plate in presence of Joule heating and heat generation, *Procedia Engineering* vol.56, pp.503-509, 2013.
6. **NHM. A. Azim**, M. K. Chowdhury, Effect of Conduction on Magnetohydrodynamic (MHD) Natural Convection Flow from an Isothermal Horizontal Circular Cylinder, *Journal of Energy, Heat and Mass Transfer*, vol. 34, pp. 233-244, 2012.
7. **NHM. A. Azim**, A. A. Mamun and M. M. Rahman, Viscous Joule heating MHD–conjugate heat transfer for a vertical flat plate in the presence of heat generation, *International Communications in Heat and Mass Transfer*, ELSEVIER 37 (2010) 666-674.
8. A. A. Mamun, Z. R. Chowdhury, **NHM. A. Azim**, and M. M. Molla, MHD-conjugate heat transfer analysis for a vertical flat plate in presence of viscous dissipation and heat generation, *International Communications in Heat and Mass Transfer*, ELSEVIER, 35 (2008) 1275-1280.
9. M. M. Rahman, A. A. Mamun, **NHM. A. Azim**, and M. A. Alim, Effect of temperature dependent thermal conductivity on magnetohydrodynamic free convection flow along a vertical flat plate with heat conduction, *Nonlinear Analysis: Modelling and Control*, 2008, Vol. 13, No. 4, 513-524.
10. A. A. Mamun, Z. R. Chowdhury, **NHM. A. Azim**, M. A. Maleque, Conjugate heat transfer for a vertical flat plate with heat generation effect, *Nonlinear Analysis: Modelling and Control*, 2008, Vol. 13, No. 2, 213–223.
11. Abdullah-Al-Mamun, **NHM. A. Azim**, Md. A Maleque, Combined effect of conduction and viscous dissipation on magnetohydrodynamic free convection flow along a vertical flat plate, *Journal of Naval Architecture and Marine Engineering*, 2007, Vol. 4, No. 2, 87-98.

#### **Local Publications:**

1. Nobinkhor Kundu and **NHM. A. Azim**, What drives worker’s remittances flow of Bangladesh? A dynamic panel data analysis, *The Jahangirnagar University Journal of Business Research*, Vol. 19, pp-29-43, June 2017.
2. **NHM. A. Azim** and Nobinkhor Kundu, Workers’ remittances of Bangladesh during the global financial crisis and beyond: A static panel data analysis, *The Jahangirnagar Journal of Business Studies*, Vol. 5, No.1, pp-145-160, June 2015.
3. **NHM. A. Azim**, Monjur Morshed, M. K. Chowdhury, Conjugate free convection from a horizontal isothermal circular cylinder with heat generation, *ASA University Review*, Vol.6, No.2, July-December, 2012.
4. **NHM. A. Azim**, Effect of viscous dissipation on Magnetohydrodynamic(MHD) conjugate free convection flow from a horizontal cylinder, *Journal of Dhaka International University*, Vol.4, No.1, June 2012.
5. Mohammad Mokaddes Ali, Rowsanara Akhter, **NHM. A. Azim** and M. A. Maleque, Effects of radiation and Viscous dissipation on conjugate free convection flow along a vertical flat plate, *Journal of Science and Technology*, Mawlana Bhashani Science and Technology University, Tangail, Vol. 1, Issue 1, pp.11-21, January 2011.
6. Mohammad Mokaddes Ali, Rowsanara Akhter, **NHM. A. Azim** and M. A. Maleque, The effects of radiation and heat generation on magnetohydrodynamic(MHD) natural convection flow along a vertical flat plate in presence of viscous dissipation, *Daffodil International University Journal of Science and Technology*, Vol. 6, Issue 1, pp.20-29, January 2011.
7. M. M. Ali, R. Akhter, **NHM. A. Azim** and M. I. Abdullah, The effects of radiation and viscous dissipation on MHD natural convection flow along a vertical flat plate in presence of Joule heating, *Journal of Applied science and Technology*, Vol. 7, No. 2, pp. 9-16, Islamic University, Kushtia, December 2010.

8. **NHM. A. Azim**, ATM. M. Rahman and M. K. Chowdhury, Effect of Joule heating on Magnetohydrodynamic(MHD)-free convection flow from an isothermal horizontal circular cylinder in presence of conduction, Journal of Dhaka international University, Vol. 2, No. 1, pp.88-97, December 2010.
9. ATM. M. Rahman, **NHM. A. Azim**, M. M. Rahman and M. K. Chowdhury, Effects of conduction and temperature dependent thermal conductivity on free convection flow along a vertical flat plate, Journal of Dhaka international University, Vol. 2, No. 1, pp.78-87, December 2010.
10. **NHM. A. Azim**, Monjur Morshed and M. K. Chowdhury, Effect of heat generation on magnetohydrodynamic(MHD) free convection flow with conduction, ASA University Review, Vol. 4, No. 1, pp.121-130, January-June 2010.
11. Mohammad Mokaddes Ali, Rowsanara akhter, **NHM. A. Azim**, The effects of radiation and joule heating on MHD natural convection flow along a vertical flat plate in presence of heat generation, Southeast University Journal of Science & Engineering, Vol.4, No.4, December 2009.
12. Moshir Rahman and **NHM. A. Azim**, Finite volume methods for solving hyperbolic problems on Euclidean manifolds without radially symmetric initial condition. (Brac University Journal, vol. III, No. 2, 2006, pp.59-65).
13. **NHM. A. Azim**, and Moshir Rahman, Solving Hyperbolic PDEs on Euclidean manifolds with radially Symmetric Initial Condition. (Southeast University-Journal of Business Studies, vol. II, No.2, Jul.2006)

**(c) Book:**

N/A

**(d) Conference Presentations**

1. **NHM. A. Azim**, **Nobinkhor Kundu**, Workers' Remittances of Bangladesh during the global financial crisis and beyond: A State Panel data Analysis, Annual Banking Conference 2015, November 22-23, BIBM, Dhaka.
2. **NHM. A. Azim**, **Nobinkhor Kundu**, Dynamism in labour market of Bangladesh: Assessment of Allied Factors, 19<sup>th</sup> Biennial National Conference of Bangladesh Economic Association, January 8-10, 2015.
3. **NHM. A. Azim**, ATM. M. Rahman and M. K. Chowdhury, MHD-conjugate free convection flow from an isothermal horizontal cylinder with stress work, Proceedings of the International conference on Marine Technology, 11-12 December 2010, Dhaka, Bangladesh
4. **NHM. A. Azim**, M. K. Chowdhury, Natural convection flow from an isothermal horizontal circular cylinder in presence of conduction and heat generation, Proceedings of the 13th Asian Congress of Fluid Mechanics, 17-21 December 2010, Dhaka, Bangladesh.
5. **NHM. A. Azim**, S. Binte Mahtab and M. K. Chowdhury, Magnetohydrodynamic (MHD)-conjugate free convection flow from an isothermal horizontal circular cylinder with joule heating effect, Proceedings of the ICME 2009, 26- 28 December 2009, Dhaka, Bangladesh.
6. **NHM. A. Azim**, ATM. M. Rahman and M. K. Chowdhury, Magnetohydrodynamic(MHD) conjugate free convection flow from an isothermal horizontal circular cylinder in presence of heat generation, Proceedings of the 16th Mathematics Conference of Bangladesh Mathematical Society, 17-19 December, 2009, Dhaka, Bangladesh.
7. ATM. M. Rahman, **NHM. A. Azim**, M. A. Alim and M. K. Chowdhury, Effects of temperature dependent thermal conductivity on conjugate free convection flow along a vertical flat plate with heat generation, Proceedings of the 16th Mathematics Conference of Bangladesh Mathematical Society 17-19 December, 2009, Dhaka, Bangladesh.
8. A. S. Bhuiyan, **NHM. A. Azim**, M. K. Bashar and M. M. K. Chowdhury, Effects of pressure stress work and viscous dissipation in natural convection flow from a horizontal circular cylinder, Proceedings of the 16th Mathematics Conference of Bangladesh Mathematical Society 17-19 December, 2009, Dhaka, Bangladesh.

9. A. A. Mamun, Z. R. Chowdhury, **NHM. A. Azim**, Effect of magnetic field and conduction on natural convection flow along a vertical flat plate in the presence of heat generation, 2nd International Conference on Mathematical Sciences 2007 (ICoMS 2007), 28-29 May, 2007, Universiti Teknologi, Malaysia.
10. A A Mamun, M M Rahman, **NHM. A. Azim** and M A Alim, Effect of temperature dependent thermal conductivity on the coupling of conduction with natural convection along a vertical flat plate, 12th Annual Paper Meet, 8-9 February, 2008, IEB Headquarter, Dhaka, Bangladesh.
11. **NHM. A. Azim**, A A Mamun, M. K. Chowdhury, Natural convection flow along a vertical flat plate in presence of conduction, 12th Annual Paper Meet , 8-9 February, 2008, IEB Headquarter, Dhaka, Bangladesh.
12. A. A. Mamun, **NHM. A. Azim**, Z. R. Chowdhury and M. A. Maleque, Natural convection flow along a vertical flat plate with conduction and heat generation effect, Proceedings of the 7th ICME 2007, ICME2007-FL-04, December 29-31, 2007, Dhaka, Bangladesh.
13. **NHM. A. Azim**, Abdullah-Al-Mamun and Dr. Md. Mustafa Kamal Chowdhury, Magnetohydrodynamic (MHD) laminar free convective flow across a horizontal circular cylinder, Proceedings of the 7th International Conference on Mechanical Engineering, ICME2007-FL-15, December 29-31, 2007, Dhaka, Bangladesh.
14. **NHM. A. Azim**, A A Mamun, M. K. Chowdhury, Conduction and Joule heating effects on magnetohydrodynamic (MHD) natural convection flow along a vertical flat plate, Fifteenth mathematics conference, Department of Mathematics, University of Dhaka, 29—31 December, 2007.

#### **Funded Project/Development Works:**

N/A

#### **Training Received :**

- [1] Day long training on BAETE Accreditation and Outcome based Engineering Education
- [2] Received a 6 days' training workshop on OBE curriculum with CO, PO and PEO mapping and Accreditation
- [3] Day long training on Outcome-Based Education
- [4] Received a 6 days' training workshop on " Teaching-Learning, Curriculum and Quality Assurance "
- [5] Attended IQAC closing workshop.
- [6] The Role and Responsibilities & Ethical Principles of University Teachers

#### **Memberships:**

- [1] **Life time member** of Bangladesh Mathematical Society, Membership No.: 582
- [2] **Registered graduates**, Registration No.: 2013026374, University of Dhaka.
- [3] **Member**, Ex student's cooperative Society, Carmichael College, Rangpur

#### **Extra-Curricular Activities:**

- [1] Member, Annual Picnic, 2018
- [2] Team Manager, 39<sup>th</sup> Batch, BBA Circle Cricket fest 2018.  
Organizer: SEU Games & Sports Club
- [3] Worked as a committee member in Bangladesh Physics Olympiad (Dhaka South)
- [4] Advisor, Social Welfare Club, Southeast University  
Duration: November 20,2012 to November 19, 2013
- [5] Worked as a committee member in Bangladesh Physics Olympiad (Dhaka South)
- [8] **Member**, Volunteer Selection Committee, SEU Job Fair 2017
- [9] **Member**, Volunteer Selection Committee, 15th Anniversary Celebration of Southeast University

- [10] **Convener**, 6<sup>th</sup> convocation volunteer sub-committee Southeast University.  
[11] **Convener**, 5<sup>th</sup> Convocation Volunteer Sub-Committee Southeast University.  
[12] **Member Secretary**, 4<sup>th</sup> Convocation Volunteer subcommittee, Southeast University

**Contact Information:**

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